N2130L

1976 Beech 58TC Baron

Cost of Ownership

Aircraft S/N: TK-25



Prepared by the worldwide aviation specialists at RidgeAire, Inc.



Aircraft Operating Cost and Performance Guide



Beechcraft Baron 58

October 29, 2022



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Data version: V 22.2.0

Beechcraft Baron 58



RANGE:

156 nm



SPEED:

200 kts



PASSENGERS:

5 people



ACQUISITION COST: \$680,000	\$237,072	VARIABLE COST: \$445/hr	FIXED COST: \$125,822
MAX PAYLOAD:	1,464 lb	ENGINES:	Continental Con IO- 550-C 2
TOTAL CABIN VOLUME:	100 cu ft	AVIONICS:	_
WINGSPAN:	37.9 ft	APU:	_
PRODUCTION:	1970 - 2005	PRODUCED / IN SERVICE:	_
SERIAL NUMBERS:	TH1 and on	MEETS STAGE 3 NOISE LEVELS:	Yes
IFR CERTIFIED:	Yes	REGULATORY CERTIFICATION:	1969 (STC) Original type certificate issued 1957 for B95A
CERTIFICATION BASIS:	CAR 3; FAR 36 through amendment 10 FAR		

Assumptions

ANNUAL UTILIZATION (DISTANCE): 45,000 nm FUEL PRICE (AVGAS): \$6.75/gal ANNUAL UTILIZATION (HOURS): 250 hrs LABOR COST: \$94/hr AVERAGE SPEED (STANDARD TRIP): 180 kts AVERAGE LENGTH (STANDARD TRIP): 200 nm

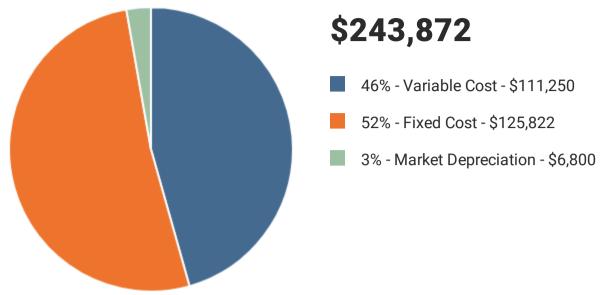
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The Baron family shares its ancestry with the Bonanzas and includes the same landing gear and cabin as the six-place Bonanzas. The Baron 58 is a 55 model with a 10-inch fuselage stretch and 300 hp Continental engines. The Baron 58 is one of the more popular light twins, both for its utility and its image.

The cabin, although a little narrow for some, has comfortable seats, good visibility and easy loading through its aft door, plus an over-the-wing pilot's door. As far as performance is concerned, the Baron 58 has a good blend of payload and speed. The Baron 58 also has reasonable short-field performance. Over 1,800 Baron 58s have been produced.

1. Cost

Total Annual Cost With Market Depreciation

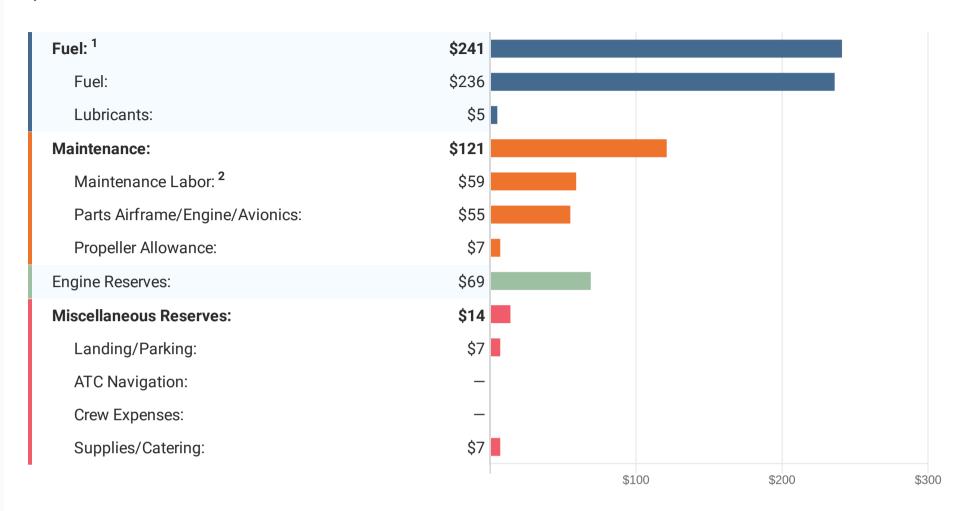


Total Annual Cost:	\$237,072
Variable Cost:	\$111,250
Fixed Cost:	\$125,822
Per Hour:	\$948
Per Nautical Mile:	\$5.27
Per Seat Per Nautical Mile:	\$1.05
Total Annual Cost with Market Depreciation:	\$243,872
Market Depreciation:	\$6,800
Per Hour:	\$975
Per Nautical Mile:	\$5.42
Per Seat Per Nautical Mile:	\$1.08

Hourly Variable Cost

PER FLIGHT HOUR:

\$445/hr



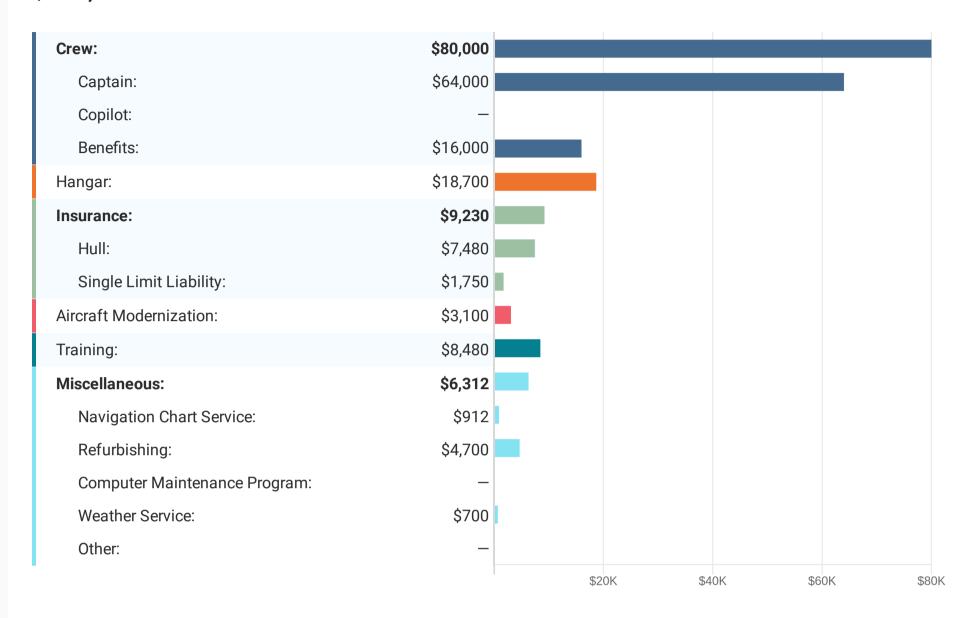
^{1.} Fuel is calculated using Fuel Price x Fuel Burn + 15% - 35 gal/hr

^{2.} Maintenance Labor Cost is calculated using the ratio of Maintenance Labor Hours per Flight Hour and the Labor Rate: 0.63 labor-hr/Fhr @ \$94/hr

Annual Fixed Cost

ANNUAL COST:

\$125,822



2. Performance

NORMAL CRUISE: LONG-RANGE CRUISE: MAXIMUM CRUISE:

197 kts 163 kts 200 kts

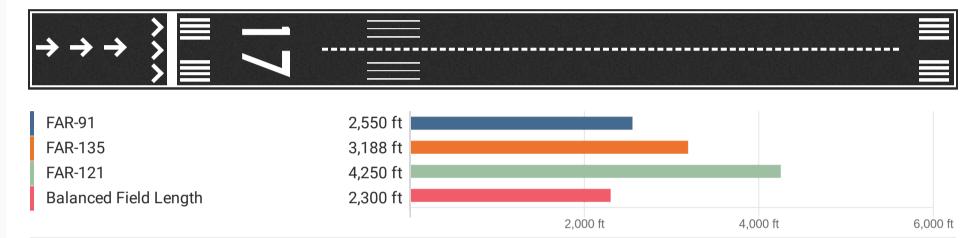
RATE OF CLIMB: MAX CERT. ALTITUDE: INITIAL CRUISE ALTITUDE: TIME TO CRUISE ALTITUDE:

1,735 ft/min — 8,000 ft 8 min

SERVICE CEILING: ENGINE OUT RATE OF CLIMB: ENGINE OUT CEILING:

20,688 ft 390 ft/min 7,284 ft

Field Length



Speeds

 VMC (GROUND):
 —

 VMC (AIR):
 —

 V2 (MAX. TAKEOFF GROSS WT.):
 101 KIAS

 VREF (BOW + PAX + NBAA RES.):
 108 KIAS

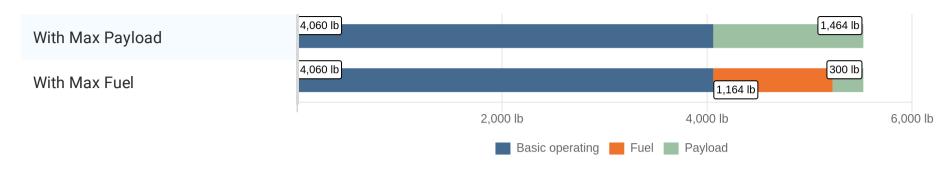
FAR 36 Noise Levels

TAKEOFF: SIDELINE: -

APPROACH:

3. Weight/Payload

Weight Breakdown



With Max Payload

MAXIMUM PAYLOAD: RANGE AT MAX PAYLOAD:

1,464 lb

With Max Fuel

AVAILABLE PAYLOAD: PASSENGER CAPACITY:

300 lb

2 people

RAMP WEIGHT: 5,524 lb
MAX LANDING: 5,400 lb
BASIC OPERATING: 4,060 lb
USABLE FUEL: 1,164 lb

MAX GROSS TAKEOFF WEIGHT: 5,500 lb
ZERO FUEL: 5,524 lb
USEFUL LOAD: 1,464 lb

4. Range



Long-Range Cruise

RANGE: AVERAGE SPEED:

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ENDURANCE: PASSENGERS:

- 2 people

Maximum Cruise

RANGE: AVERAGE SPEED:

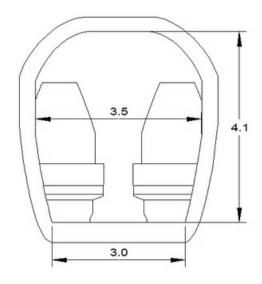
599 nm 197 kts

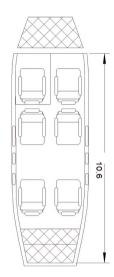
ENDURANCE: PASSENGERS:

3 hrs 2 people

SEATS FULL RANGE (30 MIN RESERVE): 156 nm FERRY RANGE (30 MIN RESERVE): 766 nm

5. Interior





PASSENGERS: CREW: TYPICAL VOLUME PER PASSENGER:

5 people 1 person 16 cu ft/person



TOTAL CABIN VOLUME: PASSENGER AREA: MISC SPACE (GALLEY, LAV, ETC.):

100 cu ft 84 cu ft 16 cu ft

CABIN WIDTH: CABIN LENGTH: CABIN HEIGHT:

3.5 ft 10.6 ft 4.1 ft

TOTAL BAGGAGE VOLUME: INTERNAL: EXTERNAL:

46 cu ft — 46 cu ft

DOOR: WIDTH (DOOR): LENGTH (DOOR):

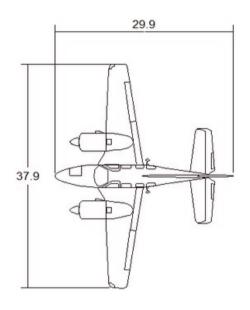
9 sq ft 3 ft 3 ft

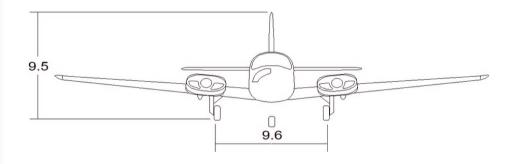
PRESSURE DIFFERENTIAL: SEA LEVEL CABIN TO: CABIN ALT AT MAX CERT ALT:

_ _ _ _

6. Exterior







WINGSPAN:

FUSELAGE:

37.9 ft

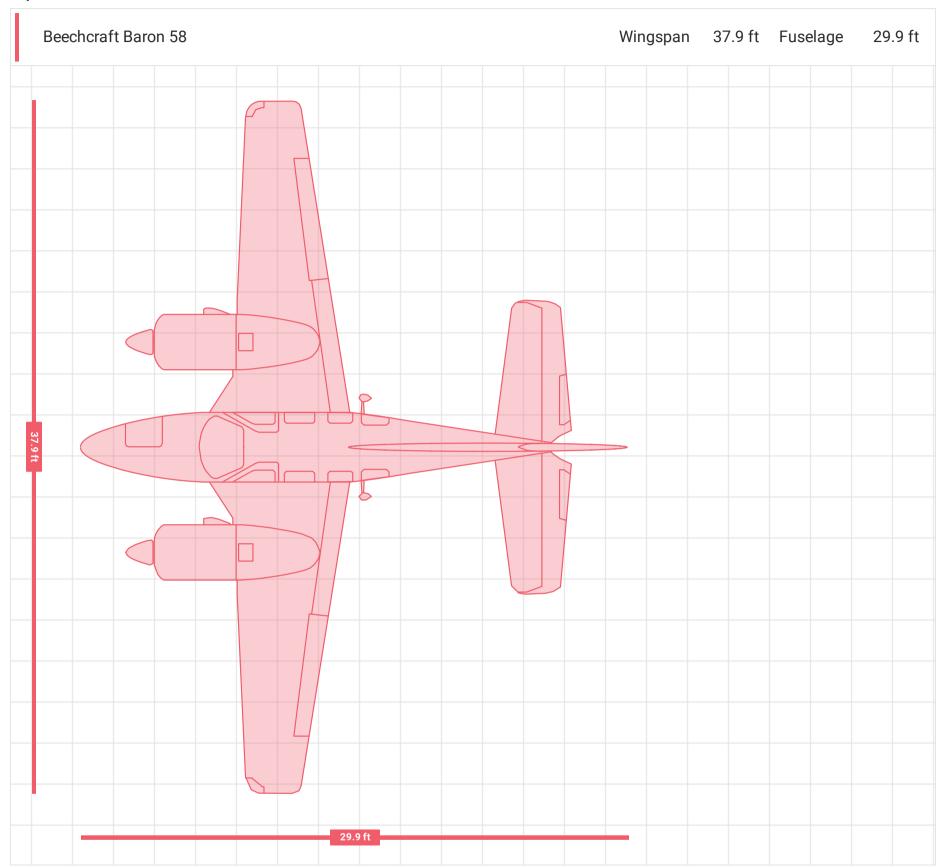
29.9 ft

POWERPLANT:

Continental Con IO-550-C 2

7. Overlay

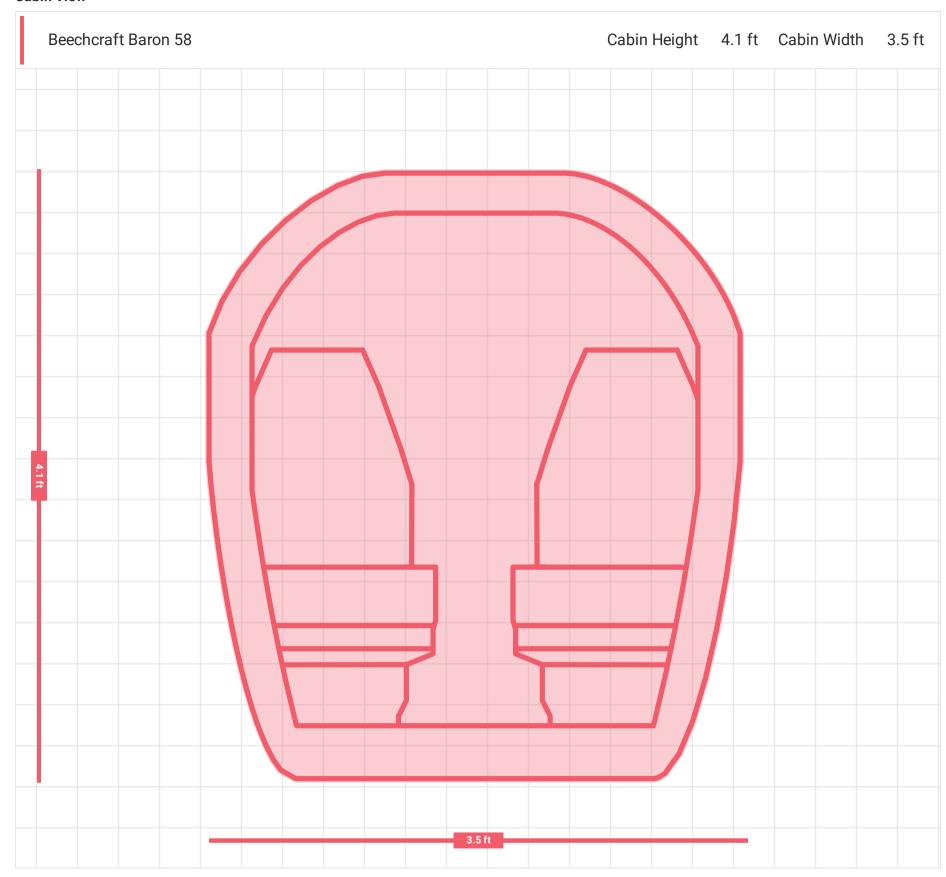
Top View



Side View

Beechcraft Baron 58			Height	9.5 ft	Fuselage	29.9 f
					15	7
	2	9.9 ft				

Cabin View



8. Equipment

AVIONICS

COCKPIT VOICE RECORDER:

FLIGHT DATA RECORDER:

EICAS:

GROUND WARNING SYSTEM:

TRAFFIC WARNING SYSTEM:

MAINT DIAG SYS:

VHF 8KHZ SPACING:

AUXILIARY POWER UNIT

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MEETS STAGE 3 NOISE LEVELS:

REGULATORY CERTIFICATION:

1969 (STC) Original type certificate issued 1957 for B95A

IFR CERTIFIED:

Yes

PRODUCTION: 1970 - 2005
SINGLE POINT REFUEL: –
EXTERNAL LAV. SERVICE: –